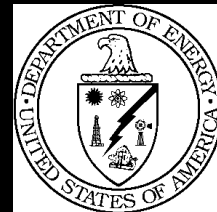


The Standards

Forum

News on the DOE Technical Standards Program



Volume 4, Number 1 - June 1996

Workshop 96



The Department of Energy (DOE) Technical Standards Program Workshop was held on April 10-12, 1996, at the Adam's Mark Hotel in St. Louis, Missouri. More than 30 representatives from both the public and private sectors shared their expertise and experiences as featured speakers addressing the theme of this year's workshop: "The Strategic Standardization Initiative - A Technology Exchange and Global Competitiveness Challenge for DOE". The workshop goal was to inform the DOE technical standards community of strategic standardization activities taking place in the Department, other Government agencies, standards developing organizations, and industry.

Approximately 100 people from across the country attended the workshop. Most of the DOE Headquarters organizations, Operations Offices, and national laboratories were represented as were the DOE management and operating contractors involved in managing DOE facility operations.



Richard Black

Mr. Richard L. Black, Director of DOE's Office of Nuclear Safety Policy and Standards, the sponsoring organization for the workshop, made the opening remarks

and welcomed everyone to the beginning of a 3-day initiative-driven agenda with nationally and internationally recognized speakers from throughout the country. Mr. Black introduced the keynote speaker,



Ambassador Smith Delivers Keynote Address

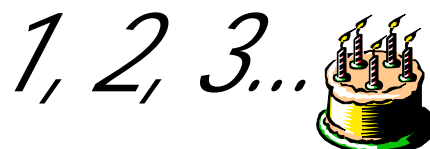
Ambassador Michael B. Smith, Senior Principal at Capitoline/MS&L, who underscored the importance of standards in promoting technology transfer and in supporting U.S. policies on international trade. Mr. Sergio Mazza, President of the American National Standards Institute



Sergio Mazza

(ANSI), made a special presentation on the ANSI vision for global competitiveness which emphasized their role in promoting

(Continued on Page 3)



Three years and counting! This edition of *The Standards Forum* marks our third anniversary for providing what we hope has been timely, accurate, and relevant information on current events in the Technical Standards Program and the "world" of standards and standardization practices. Today, over 2300 individuals receive and read this publication and its monthly update, *Standards Actions*. We have received many compliments on the format and technical content of this document, and we have benefited from the comments received from our readers that are directed at improving the publication. Recent editions of *The Standards Forum* and *Standards Actions* are now accessible through the World Wide Web under the Technical Standards Program Home Page.

As we stated in the June 1993 inaugural edition, we hope you find *The Standards Forum* to be an informative and interesting publication. Because the document continues to serve as a "forum" for

(Continued on Page 12)

INSIDE THIS ISSUE

A Note from the Manager	2
Questions & Answers	2
TSMC 96-1	3
A Proposal	4
Lessons Learned	4
News Briefs	5
Standards Actions	7
Meetings	11

● ● ● ● ● ● ● ● a note from the Manager...

DOE Technical Standards Program

The Technical Standards Program - A Rich Resource

The Technical Standards Program (TSP) is primarily a service program that benefits from the direct participation of its "customers" in strategic and program planning, procedures development, communications improvement, and issue resolution. Through the direct efforts and input of both the program management staff of the Technical Standards Program Office (TSPO) and 80 or so Technical Standards Managers (TSMs) from headquarters, field, and contractor organizations (only about half of the TSMs are sufficiently active), DOE has focused the TSP on promoting the use of non-Government voluntary standards (NGSs) across all DOE and contractor organizations. As a result, the TSP provides the processes, functions, and resources for identifying and selecting NGSs to meet site, facility, or activity needs.

The TSP also serves as a Standards Development Organization (SDO), working through its TSMs, when it is necessary for a DOE or contractor organization to (1) develop a new technical standard, (2) modify, revise, or cancel an existing technical standard, (3) capture emerging technology, and (4) promote technology

transfer. The TSP also serves as a link and coordinator for technical standards activities of interest to DOE in the federal, national, and international arenas (e.g., working with the American National Standards Institute and affiliated NGS bodies on standards development and conversion).

The increasing need for such services across DOE is driving people to the services provided in the TSP. Over the past year, participation in DOE technical standards activities and the use of DOE technical standards resources has risen sharply. This is largely due to an increased effort by the TSPO and TSMs to publicize the services available through the TSP.

Use of the TSP Home Page on the Internet provides full text access and printing capabilities for current DOE technical standards, *The Standards Forum*, and *Standards Actions*. Lists of ongoing technical standards projects and project registration information are provided. The names and addresses of TSMs and others involved in ongoing Government and non-Government standards activities are also given. Links to many SDOs are supplied. As more DOE citizens become aware of these resources, we become more conscious of what additional services are necessary, and how to improve our existing services. We certainly hope that you, the reader, will convey to your associates that this abundance of information and services is available.

— Rick Serbu



Answers to Frequently Asked Questions

Question: All of the DOE technical standards listed in TSL-1 and recently approved documents on the Internet are not listed on the downloadable documents list. How can I get copies of those documents not listed and when will all of them be on the Internet?

Answer: As of May 31, 1996, there are still 29 documents that have been approved by DOE that are not yet posted under the TSP Home Page. Some of these documents are either just received or there are problems in converting the disks we received into PDF format for the Internet. However, most of the missing documents are those published in 1991 and 1992 that were not received as disk copies. There was no requirement to provide electronic files of DOE technical standards at that time. Due to budget constraints, we have not been able to spend the appropriate amount of time on this backlog to complete the scanning and conversions. However, OSTI has initiated a project to complete the scanning, file conversion, and Internet posting of the remain-

ing approved DOE technical standards by September 9, 1996. If you need copies and they are not in stock at OSTI, you may order a copy from OSTI and pay for it by check, money order, or Visa/Mastercard.

Question: The copies of the DOE technical standards on the Internet are great quality and Acrobat is pretty easy to use. However, if I just want to look at a printed copy and don't want to take the time to download a large document to my printer just to see a few pages, is there anywhere that I can go locally to see a copy?

Answer: Since printing budgets have been reduced and the Internet is available to us, we are now only providing hard copies to all the technical libraries in the DOE complex (currently 67 libraries). However, since we just recently were able to validate the list of current libraries, it is possible that they won't have all the past documents in stock. The TSPO is embarking on a project (as funding allows) to obtain a list of documents held by these libraries and then supply them with any documents that they are missing. Check with your local technical library first, and if they don't have a copy, call the TSPO and we will find a way to get one to you.

Question: I heard that there is a new copy of the DOE Hoisting and Rigging Manual out. How do I get a copy?

(Continued on Page 12)

Workshop 96 (Continued from Page 1)



Robert Walsh

and facilitating voluntary consensus standards and conformity assessment systems and protecting their integrity.

The second day of the workshop began with a special presentation by Robert Walsh, Director of ANSI's Center for Strategic Standardization Management (CSSM). Mr. Walsh provided an overview of the activities of the CSSM in facilitating strategic standardization objectives

among members of industry and the Government. Mr. Walsh also opened the third day of the workshop with a presentation on the CSSM activities which focus on the means and methods of implementing strategic standardization. Our luncheon speaker, Mr. David W. Cheney, Acting Director of the Secretary of Energy Advisory Board, shared his views on the activities taking place within DOE to advance technology development and for the exchange of this technology with our industrial partners.

Workshop panel sessions included presentations by representatives from various Government agencies that focused on the coordination among and participation of Government personnel in the voluntary standards process; reports by standards organizations, industry, and DOE representatives on current technology exchange programs; and how the road ahead appears for "information superhighway" standardization. Another session highlighted successful standardization case studies selected from several sites across the DOE complex. Individuals working on technical standards were continually challenged to improve cooperation and communications with the involved organizations in response to the Strategic Standardization Initiative. The last workshop panel session focused on the status and future of the "necessary and sufficient" process and the development and use of standards as envisioned by senior DOE management.

Mr. Richard J. Serbu, Manager of the DOE Technical Standards Program, wrapped up the workshop by thanking everyone for their participation and reminding them that the program is a Department-wide effort that crosscuts all organizations and disciplines, and can help meet the Department's technology exchange and global competitiveness challenge.



David Cheney



Rick Serbu

TSMC 96-1 Gathers at the Gateway



The DOE Technical Standards Managers' Committee (TSMC) met on April 9-10, 1996, in St. Louis, Missouri. The meeting served as a prelude to the 1996 Technical Standards Program Workshop. Approximately 30 Technical Standards Managers (TSMs) and designated alternates participated in the meeting's open discussion and breakout sessions. In addition, the meeting featured an updated tutorial conducted by Jeff Feit, EH-31, on the objectives, implementing procedures, and general business protocol of the Technical Standards Program (TSP).

Highlights from the meeting are provided below.

1. Public Law (P.L. 104-113) - Rick Serbu briefed the meeting participants on the elements of the new public law (signed by President Clinton on March 7, 1996) that related to the TSP. By codifying the relevant portions of OMB Circular A-119, the new law strengthens the existing Federal policy (adopted by DOE in Order 1300.2A) for promoting the development and use of "external" (i.e., non-Government, voluntary, consensus, etc.) standards in lieu of "internal" (i.e., DOE) standards. The existing procedures of the TSP are consistent with the new law.
2. New TSP Order and Implementation Guide - The breakout sessions focused on reviewing the draft versions of Order 252.1 and G-252.1 that were distributed to the TSMs with the meeting announcement. TSM comments were recorded for incorporation in the final document drafts for DOE-wide coordination.
3. Access to DOE Technical Standards - Broad distribution of new/revised DOE technical standards has been discontinued due to reductions in the TSP budget. The program is now focusing on providing "electronic" copies of the documents under the TSP Home Page and making limited distribution of printed copies to DOE libraries. The listing of DOE libraries used for this distribution will be made available to the TSMs.
4. Performance Measurement - A set of possible performance indicators for the TSP was distributed to the TSMs for comment.
5. Program Briefings - Copies of management briefing materials on the TSP were distributed at the meeting. It is expected that the TSMs will use these materials for conducting local/site briefings on the program. Comments on the briefing materials were requested.
6. Current Events - The participants were treated to "hot topic" presentations from Larry Stirling, EH-41 (ISO 14000 progress), Jeanette Helfrich, GC (GC views on standards), and Lynne Kroggel, LANL (N&S progress).

A Proposal to Establish Topical Committees/Technical Committees Under TSP Recognition

Some of you may have noticed that along with DOE's diversity of organizations and locations, there comes a propensity (upon occasion) for "reinventing the wheel." It seems that our penchant for providing technical advice and positions on issues is proportional to the number of "stovepipe organizations" the Department manifests, but this is not matched by a penchant for cooperating and coordinating that is proportional to DOE resources and the intellectual capabilities of our people. A truly "crosscutting" program, organization, or effort - such as the DOE Technical Standards Program - provides a forum and structure for open discussion and resolution of issues, recognition of needs, and demonstration of value-added for its activities.


In an effort to broaden the baseline for cooperation and coordination for specific technical areas across DOE, the TSP proposes establishing a loose confederation of topical committees (or technical committees) under the aegis of the TSP. For their technical areas of interest, these topical committees could serve as TSP "Preparing Activities" and "Reviewing Activities" within DOE. They could form direct ties with counterpart Standards Development Organization (SDO) topical committees to participate in development and review of national and international technical standards. They could work with counterpart Federal topical committees to establish government-wide positions for technical issues on proposed topical standards. We propose that the effort would integrate and coordinate ongoing efforts, and thus entail few additional resources - indeed, the efficiencies gained will probably result in a net resource gain (invent the wheel only once!). Much like our counterparts' efforts in industry, this effort will enable DOE to establish or recognize technical "focus points" or "quality groups" among people who should be working together, provide a place for interested parties to join, and provide a home for technical corporate memory (especially in the face of downsizing and reorganization). This could preclude the need to establish costly and time-consuming special working groups when a critical technical issue is raised, or at least make their formation easier after reorganizations and function changes.

The full range of technical areas could be represented as needed, with interim or permanent associations and functions. The topical committees would be recognized and listed under the TSP, perhaps on the TSP Home Page and the published Technical Standards Lists. The TSP would establish a few baseline criteria for recognizing a topical committee. These characteristics might include technical expertise of members, structured organizational and operational protocols, openness, balance of interest, and due process. The TSP does not intend to specify the details for a charter or operating protocols for these topical committees. For our purposes, quality of participants and outcomes are the key factors. Employing ANSI-like topical committee standards lends credibility and promotes consistency, but does not necessarily support outcome or timeliness, and indeed may emphasize process over results.

The TSP would recognize and link existing *de facto* topical committees (e.g., fire protection, explosives safety, criticality safety), support development of "new" technical areas (such as Metrology), and seek to link to existing *de facto* technical organizations, such as the Special Interest Groups (SIGs) under TRADE. Our initial efforts will focus on integrating DOE's Metrology interests under the auspices of a single topical committee, and recognizing existing, well-established *de facto* topical groups through the TSP.

For topical committees to succeed, they must require minimal resources to develop, initiate, and maintain - we need to apply existing resources with a different focus. Clearly, there must be value-added (e.g., coordination, redundant efforts eliminated, clear technical positions established, reduced conflicts) that offsets the overhead and staff costs of establishing and participating on topical committees. We must incorporate existing infrastructure and avoid duplicating existing program efforts and quality concept efforts. Please respond with your comments if you are an interested party, hostile party, or informed, objective party.

Rick Serbu, DOE Technical Standards Program Manager
Richard.Serbu@hq.doe.gov



**LESSONS
LEARNED**

"Rogue" Standards

The Technical Standards Program Office (TSPO) continues to receive documents that are being or have been produced by DOE or its contractors which should be recorded in the DOE Technical Standards Program. Some of the blame can be placed on the TSPO for not being able to get the information on the program as widely disseminated across the complex as we would like. We continue to work on this through our publications, information on the TSP Home Page and its links to other home pages, on-site training requests, presentations at various meetings and conferences, and, recently, through a video conference to several people at one of the sites. We keep trying to improve and widen this process. If you would like more information on the TSP for your site, please call us, and we will help you determine the best method to get the information to the people who need it.

A Quote of Note

In the Comment column of the February 1996 *ISO Bulletin*, Larry Eicher, ISO's Secretary General, had an interesting comment on the growth and influence of ISO: "Beginning operations in 1947, ISO published its 100th standard in 1959, after 12 years of activity. But only ten years after that, in 1969, ISO produced its 1,000th standard—the pace was accelerating and it would continue to do so. Fourteen years later, in 1983, we brought out our 5,000th standard. And in the 12 years between then and 1995, ISO doubled its portfolio to reach 10,000 standards." (Quoted from the March 1996 issue of *TMO Update*®.)

More on the ISO 14000 Series of Standards

(Excerpts reprinted from the *IEEE Standards Bearer*, January 1996, ©IEEE 1996, All rights reserved)

Barbara Hill, manager of Product Safety Technology at IBM, comments on organizational and product-oriented aspects of ISO 14000 in the January 1996 issue of the *IEEE Standards Bearer*. On the organizational side, there are three Sub-Technical Advisory Groups, ST1—Environmental Management Systems, ST2—Environmental Auditing, and ST4—Environmental Performance Evaluation. There are three product-oriented development groups, ST3—Environmental Labeling, ST5—Life-Cycle Assessment, and WG1—Sub-Working Group Environmental Aspects in Product Standards. WG1 is developing a guide for standards developers on the interaction of environmental issues and standards.

Ms. Hill describes two standards expected to be published in early 1996. ISO 14001, *Environmental Management Systems—Specification with Guidance for Use*, allows for a company to perform a first-party audit, and covers topics such as corporate policy; legal requirements; objectives; communications; documentation; control procedures; emergency preparedness; monitoring and measurement; corrective and preventive actions; auditing; and management review. ISO 14010, *Guidelines for Environmental Auditing—General Principles*, uses management review and compliance processes to focus on implementation, maintenance, and assessment of environmental management systems.

1996 IEEE Standards Catalog

The catalog is available on the World Wide Web at: <http://stdsbbs.ieee.org>. A printed copy may be ordered by phone (908-562-3800), FAX (908-562-1571) or Email (stds-maillst@ieee.org).

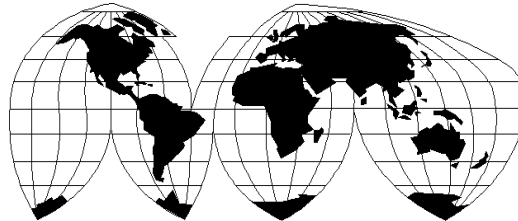
A "Standard for Standards"

ANSI has issued the new standard *Recommended Practice for Standards Designation and Organization*, SES 1:1995. The standard is a source of guidance to committees, societies,

associations, and other entities involved in the development of standards. It provides guidance in establishing a consistent format and content structure for standards that should help in the electronic production, storage, retrieval, and distribution of standards. The abstract published with the standard summarizes its approach: "This recommended practice addresses the concerns of users and standards developers by providing

guidance on identifying and designating standards. It also attempts to standardize where information should be located within broad generic types of standards. Separate sections on referenced publications, definitions, standards elements, and format are included." The standard may be ordered from ANSI (address in the *Standards Actions* portion of this publication) or from the Standards Engineering Society (SES), 1706 Darst Avenue, Dayton, OH, 45403-3104; 513-258-1955; FAX 513-258-0018.

The World of Standards



NEWS BRIEFS

URLs of Interest to TSP Personnel

The following World Wide Web (WWW) addresses were compiled by Rick Serbu in fulfillment of TSMC Action Item 96-1/06, "Provide a list of URLs of interest to participants in the TSP for publication in the June 1996 edition of *The Standards Forum*."

Advisory Committee on External Regulation of Department of Energy Nuclear Safety
<http://www.em.doe.gov/acd/index.html>

American National Standards Institute
<http://www.ansi.org/>

Department of Energy Directives
<http://iosun.lanl.gov:2008/>

Department Standards Committee (DSC) WWW Page Announcement
<http://www.dsc.doe.gov/production/disc/>

DoD Index of Specifications & Standards (DODISS)
<http://www.dtic.mil/dps-phila/dodiss/>

ES&H InfoCenter Nav. Map
<http://tis.eh.doe.gov/map.html>

Government Printing Office (GPO) Access
http://www.access.gpo.gov/su_docs/aces/aaces001.html

NIST NSSN Test Bed: Standards Developers Online
<http://dsys.ncsl.nist.gov/nssn/others/index.html#gov>

Office of Management and Budget (OMB) Library
<http://fwux.fedworld.gov/pub/omb/omb.htm>

OMB A-119 Policy
gopher://pula.financenet.gov:70/00/docs/central/omb/omb_a119.asc

News Briefs (Continued from Page 5)

The World-Wide Web Virtual Library: Standards and Standardization Bodies

<http://www.iso.ch/VL/Standards.html>

Yahoo - Government:Agencies:Executive Branch

http://www.yahoo.com/Government/Agencies/Executive_Branch/

Yahoo - Reference:Standards

<http://www.yahoo.com/Reference/Standards/>

Yahoo - Science:Organizations:International Organization for Standardization (ISO)

http://www.yahoo.com/Science/Organizations/International_Organization_for_Standardization_ISO/

The National Technology Transfer and Advancement Act of 1995

On March 7, 1996, President Clinton signed into law "The National Technology Transfer and Advancement Act of 1995." The new law, referred to Public Law (P.L.) 104-113, provides additional impetus to the policy changes initiated under Office of Management and Budget (OMB) Circular A-119, *Federal Participation in the Development and Use of Voluntary Standards*, that are transitioning the Executive branch of the Federal Government from a developer of internal standards to a customer of external standards. Section 12, "Standards Conformity", of the act states that "...all Federal agencies and departments shall use technical standards (defined as "performance-based or design-specific technical specifications and related management systems practices") that are developed and adopted by voluntary consensus standards bodies, using such technical standards as a means to carry out policy objectives or activities determined by the agencies and departments." The act further states that "...Federal agencies and departments shall consult with voluntary, private sector, consensus standards bodies, and shall...participate with such bodies in the development of technical standards."

Because the DOE has, since 1980, adopted the guidance of OMB Circular A-119 in its policy documents on technical standards (i.e., Order 1300.2 and 1300.2A), the new law compliments the existing processes and procedures of the Technical Standards Program. The Department is a recognized leader within the Federal Government on technical standards management programs, and several voluntary standards bodies have recently contacted DOE for information on current priorities for converting DOE technical standards to voluntary (i.e., non-Government) standards. Individuals representing the ANSI-Nuclear Standards Board met with the Technical Standards Program Office (TSPO) staff in Germantown on April 17, 1996. Also, representatives of ASTM were briefed on the Technical Standards Program at a workshop on May 22, 1996, and a briefing for the American Society of Mechanical Engineers has been scheduled for June 12, 1996.

The National Technology Transfer and Advancement Act of 1995, implemented as P.L. 104-113, is a true shift in the paradigm associated with Federal technical standards activities. Where DOE, in its continued transition to a standards-based operating

culture, identifies the need for new or revised technical standards, P.L. 104-113 compels us to focus all technical standards development efforts deemed necessary toward non-Government standards in lieu of DOE technical standards. If you would like to receive additional information, please contact the TSPO.

World Standards Day Paper Competition

(reprinted from *The Standardization Newsletter*, May 1996)

"U.S. National vs. International Standards" will be the theme of the 1996 World Standards Day paper contest, organizers of the event announced. The author of the winning paper will receive a \$2,500 cash award, a commemorative plaque, and national recognition. The winner will be honored at a special function to be held during the World Standards Day celebration in Washington, D.C. on October 16, 1996.

The paper should make a case for whether U.S. National Standards or International Standards are more in the best interests of the United States. The paper may also present the pros and cons of National and International Standards. The paper can be written from your organization's or industry's point of view or it may be from your personal experience illustrated by research and evidence from that experience.

The contest is open to any individual in the private sector or government, including employees of standards developing organizations, working at a facility located in the United States. Papers prepared in accordance with the rules should be received by the World Standards Day Committee no later than September 1, 1996.

Copies of the rules and the entry forms are available by calling Ms. Carolyn Anderson, Underwriters Laboratories, Inc., at 919-549-1877 (FAX: 919-547-6018), or by writing to the following address.

Underwriters Laboratories, Inc.
ATTN: Carolyn Anderson
World Standards Day Paper Competition
12 Laboratory Drive
Research Triangle Park, NC 27709



Standards Actions

Projects Initiated

The following DOE technical standards projects were recently initiated. If you are interested in participating in the development of these standards, please contact the persons listed below.

- *Radiological Training for Uranium Facilities*, Project No. 6910-0056; Peter O'Connell, EH-52; 301-903-5641, FAX 301-903-2239, Email Peter.O'Connell@hq.doe.gov.
- *Radiation Generating Device Safety Training*, Project No. 6910-0057; Peter O'Connell, EH-52; 301-903-5641, FAX 301-903-2239, Email Peter.O'Connell@hq.doe.gov.
- *ALARA Training for Technical Support Personnel*, Project No. 6910-0058; Peter O'Connell, EH-52; 301-903-5641, FAX 301-903-2239, Email Peter.O'Connell@hq.doe.gov.
- *Contamination Control for Biomedical Researchers*, Project No. 6910-0059; Peter O'Connell, EH-52; 301-903-5641, FAX 301-903-2239, Email Peter.O'Connell@hq.doe.gov.
- *Tritium Handling and Safe Storage*, Project No. SAFT-0054; William W. Weaver, EH-34; 301-903-7038, FAX 301-903-6383, Email Bill.Weaver@eh.doe.gov.
- *Internal Dosimetry*, Project No. SAFT-0057; Judith Foulke, EH-52; 301-903-5865, FAX 301-903-7773, Email Judy.Foulke@hq.doe.gov.
- *Worker Protection for Uranium Facilities*, Project No. SAFT-0058; Steven G. Zobel, EH-52; 301-903-2305, FAX 301-903-7773, Email Steve.Zobel@hq.doe.gov.

DOE Technical Standards Recently Sent for Coordination

The appropriate Technical Standards Managers (TSM) will provide selected reviewers with copies for comment. If you wish to comment on a particular document, please notify your TSM. DOE documents sent for coordination during the past month are given below.

- *Criteria for Packaging of Plutonium Metals and Oxides for Long-Term Storage*, Project No. PACK-0009; Ray Cooperstein, DP-45;

301-903-5353, FAX 301-903-7065; comments due July 17, 1996.

- *Guidelines for Risk-Based Prioritization of DOE Activities*, Project No. MISC-0022; Ken Ferlic, DP-45; 301-903-6703, Email Kenneth.Ferlic@dp.doe.gov, comments due July 19, 1996.

Documents Recently Published

The following DOE documents have recently been published:

- DOE-STD-1091-96, *Firearms Safety*, February 1996.
- DOE-STD-1104-96, *Review and Approval of Nonreactor Nuclear Facility Safety Analysis Reports*, February 1996.
- DOE-STD-6002-96, *Safety of Magnetic Fusion Facilities: Requirements*, April 1996.
- DOE-HDBK-1001-96, *Guide to Good Practices for Training and Qualification of Instructors*,

March 1996.

- DOE-HDBK-1002-96, *Guide to Good Practice for Training and Qualification of Chemical Operators*, March 1996.
- DOE-HDBK-1003-96, *Guide to Good Practices for Training and Qualification of Maintenance Personnel*, March 1996.

DOE employees and DOE contractors may obtain copies from the DOE Office of Scientific and Technical Information (OSTI), P.O. Box 62, Oak Ridge, Tennessee 37831; telephone 423-576-8401 or FAX 423-576-2865.

Subcontractors and the general public may obtain copies from the U.S. Department of Commerce, Technology Administration, National Technical Information Service, Springfield, Virginia 22161; telephone 703-487-4650 or FAX 703-321-8547.

The Technical Standards Program is sponsoring a project at the Office of Scientific and Technical Information (OSTI) to place *all* DOE technical standards (i.e., standards and handbooks) on the Internet. To date, 80 DOE technical standards have been placed on the Internet at the following address:

(Continued on page 8)

Technical Standards Program

Document Status as of 05/31/96

In Conversion	In Preparation	Out for Comment	Published in Past 30 Days
23	59	19	6

Total in process = 78

Standards Actions (Continued from page 7)

<http://apollo.osti.gov/html/techstds/techstds.html>.

The following DOE technical standards have recently been placed on the Internet:

- DOE-STD-1020-94(CH-1), *Natural Phenomena Hazards Design and Evaluation Criteria for Department of Energy Facilities*, January 1996.
- DOE-STD-1024-92(CH-1), *Guidelines for Use of Probabilistic Seismic Hazard Curves at Department of Energy Sites for Department of Energy Facilities*, January 1996.
- DOE-STD-1067-94, *Guide to Good Practices for Maintenance Facilities, Equipment, and Tools at DOE Nuclear Facilities*, June 1994.
- DOE-STD-1068-94, *Guide to Good Practices for Maintenance History at DOE Nuclear Facilities*, June 1994.
- DOE-STD-1073-93-Pt.2, *Guide for Operational Configuration Management Program, Part II*, November 1993.
- DOE-STD-1091-96, *Firearms Safety*, February 1996.
- DOE-STD-1104-96, *Review and Approval of Nonreactor Nuclear Facility Safety Analysis Reports*, February 1996.
- DOE-STD-6002-96, *Safety of Magnetic Fusion Facilities: Requirements*, April 1996.
- DOE-STD-6003-96, *Safety of Magnetic Fusion Facilities: Guidance*, April 1996.
- DOE-HDBK-1001-96, *Guide to Good Practices for Training and Qualification of Instructors*, March 1996.
- DOE-HDBK-1002-96, *Guide to Good Practices for Training and Qualification of Chemical Operators*, March 1996.
- DOE-HDBK-1003-96, *Guide to Good Practices for Training and Qualification of Maintenance Personnel*, March 1996.
- DOE-HDBK-1015-93, *Chemistry Volume 1*, January 1993.
- DOE-HDBK-1099-96, *Establishing Nuclear Facility Drill Programs*, March 1996.
- DOE-HDBK-1100-96, *Chemical Process Hazards Analysis*, February 1996.
- DOE-HDBK-1101-96, *Process Safety Management for Highly Hazardous Chemicals*, February 1996.

Non-Government Standards

American National Standards Institute

The American National Standards Institute (ANSI) publishes coordination activities of non-Government standards (NGS) biweekly in *ANSI Standards Action*. Please note that distribution of *ANSI Standards Action* is normally made only to individual members of ANSI or in group mailings to site members of ANSI. For information on site membership, ask your local ANSI contact.

For information on individual or group ANSI membership, call Bethany Marks at 212-642-4948. For further information on distribution policies of ANSI publications, call the ANSI distribution manager at 212-642-4952.

Copies of *ANSI Standards Action* and ANSI-published documents may be obtained from ANSI, 11 West 42nd Street, New York, NY 10036 (212-642-4900, FAX 212-302-1286). Comments on listed draft standards may be submitted by contacting the standards developing organization for information.

The following listings are extracted from *ANSI Standards Action* and are representative of NGS development activities that may be relevant to DOE operations. Refer to *ANSI Standards Action* for a complete listing of changes and new publications, standards-developing organizations, and additional information about submitting comments.

The following American National Standards are currently in coordination:

- ASTM A0496, *Specification for Steel Wire, Deformed, for Concrete Reinforcement* (new standard); comments due July 9, 1996.
- ASTM A0498, *Specification for Seamless and Welded Carbon, Ferritic, and Austenitic Alloy Steel Heat-Exchanger Tubes with Integral fins* (new standard); comments due July 9, 1996.
- ASTM A0508, *Specification for Quenched and Tempered Vacuum-Treated Carbon and Alloy Steel Forgings for Pressure Vessels* (new standard); comments due July 9, 1996.
- ASTM A0515, *Specification for Pressure Vessel Plates, Carbon Steel, for Intermediate- and Higher Temperature Service* (new standard); comments due July 9, 1996.
- ASTM A0553, *Specification for Pressure Vessel Plates, Alloy Steel, Quenched and Tempered 8 and 9% Nickel* (new standard); comments due July 9, 1996.
- ASTM A0592, *Specification for High-Strength Quenched and Tempered Low-Alloy Steel Forged Fittings and Parts for Pressure Vessels* (new standard); comments due July 9, 1996.
- ASTM A0608, *Specification for Centrifugally Cast Iron-Chromium-Nickel High-Alloy Tubing for Pressure Application at High Temperatures* (new standard); comments due July 9, 1996.
- ASTM A0662, *Specification for Pressure Vessel Plates, Carbon-Manganese, for Moderate and Lower Temperature Service* (new standard); comments due July 9, 1996.
- ASTM A0765, *Specification for Carbon Steel and Low-Alloy Steel Pressure-Vessel-Component Forgings with Mandatory Toughness Requirements* (new standard); comments due July 23, 1996.
- ASTM A0795, *Specification for Black and Hot-Dipped Zinc-Coated (Galvanized) Welded and Seamless Steel Pipe for Fire Protection Use* (new standard); comments due July 23, 1996.

(Continued on page 9)

Standards Actions (Continued from page 8)

- ASTM A0826, *Specification for Seamless Austenitic and Martensitic Stainless Steel Duct Tubes for Liquid Metal-Cooled Reactor Core Components* (new standard); comments due July 23, 1996.
- ASTM A0831, *Specification for Austenitic and Martensitic Stainless Steel Bars, Billets, and Forgings for Liquid Metal Cooled Reactor Core Components* (new standard); comments due July 23, 1996.
- ASTM A0851, *Specification for High-Frequency Induction Welded, Unannealed, Austenitic Steel Condenser Tubes* (new standard); comments due July 23, 1996.
- ASTM A0887, *Specification for Borated Stainless Steel Plate, Sheet, and Strip for Nuclear Application* (new standard); comments due July 23, 1996.
- ASTM A0906, *Specification for Alloy Steel Chain Slings for Overhead Lifting* (new standard); comments due July 23, 1996.
- ASTM E0690, *Practice for In-Situ Electromagnetic (Eddy-Current) Examination of Nonmagnetic Heat Exchanger Tubes* (new standard); comments due July 9, 1996.
- ASTM E0748, *Practices for Thermal Neutron Radiography of Materials* (new standard); comments due July 23, 1996.
- ASTM E1002, *Test Method for Leaks Using Ultrasonics* (new standard); comments due July 23, 1996.
- ASTM E1316, *Terminology for Nondestructive Examinations* (new standard); comments due July 23, 1996.
- UL 618, *Standard for Safety for Concrete Masonry Units* (new standard); comments due July 9, 1996.
- UL 971, *Standard for Safety for Nonmetallic Underground Piping for Flammable Liquids* (new standard); comments due July 9, 1996.
- UL 1715, *Standard for Safety for Fire Test of Interior Finish Material* (revision of ANSI/UL 1715-1990); comments due July 23, 1996.

The following newly published American National Standards are available from ANSI:

- ANSI/ASHRAE 90.2-1993, *Energy Efficient Design of New Low-Rise Residential Buildings*.
- ANSI/ASME B29.24M-1995, *Roller Load Chains for Overhead Hoists*.
- ANSI/ASME B31.3-1996-1996, *Process Piping* (includes revision service).
- ANSI/ISO/ASQC 10007-1995, *Quality Management - Guidelines for Configuration Management*.

The following international standards are currently in coordination (comment due dates follow each entry):

- EN 161:1991/prA2, *Automatic shut-off valves for gas burners and gas appliances* - August 21, 1996.

- prEN 12350, *Testing concrete - Determination of consistency of fresh concrete - Vebe test* - August 21, 1996.
- prEN 12354-2, *Building acoustics - Estimation of acoustic performance of buildings from the performance of products - Part 2: Impact sound insulation between rooms* - September 4, 1996.
- prEN 12362, *Testing concrete - Determination of tensile splitting strength of test specimens* - September 4, 1996.
- prEN 12367, *Maintenance for portable fire extinguishers* - September 4, 1996.
- prENV 1259-2, *Single burner gas-fired overhead radiant tube heaters and non-domestic gas-fired overhead luminous radiant heaters - Part 2: Requirements and test methods for establishing the rational use of energy - Radiometric Method B* (for information).
- prEN ISO 14313, *Petroleum and natural gas industries - Ball check, gate and plug valves - Specification (ISO/DIS 14313: 1996)* - August 11, 1996.
- prEN 50073: 1996, *Guide for selection, installation, use and maintenance of apparatus for the detection and measurement of combustible gases* - August 4, 1996.

The following newly published international standards are available from ANSI:

- ISO 10849: 1996, *Stationary source emissions - Determination of the mass concentration of nitrogen oxides - Performance characteristics of automated measuring systems*.
- ISO/IEC 10179: 1996, *Information technology - Processing languages - Document Style Semantics and Specification Language (DSSSL)*.

American Society for Testing and Materials

Standards activities of the American Society for Testing and Materials (ASTM) are published monthly in *ASTM Standardization News*. Orders for subscriptions or single copies of *ASTM Standardization News* may be submitted to ASTM, Subscription Dept.-SN, 100 Barr Harbor Drive, West Conshohocken, Pennsylvania 19428-2959. For information regarding ASTM membership, contact the Membership Services Department at 610-832-9692. ASTM publications may be ordered from the ASTM Customer Services Department at 610-832-9585 (FAX 610-832-9555). Comments on listed draft standards may be submitted by contacting the ASTM Standards Coordination Department at the above address. Questions may be addressed to the Technical Committee Operations Division at 610-832-9743 (FAX 610-832-9666). ASTM is developing a World Wide Web home page. The current version can be visited at <http://www.astm.org>. The following listings are extracted from *ASTM Standardization News* and are representative of NGS development activities that may be relevant to DOE operations.

Standards Actions (Continued from page 9)

The following ASTM standards are currently in coordination
(the due date for all items is June 10, 1996):

- New Standard, *Test Methods for Evaluating Masonry Bond Strength* (Ref. Z4154Z).
- New Standard, *Test Method for Monotonic Compressive Strength Testing of Continuous Fiber-Reinforced Advanced Ceramics With Solid Rectangular Cross-Section Specimens at Ambient Temperatures* (Ref. Z4877Z).
- New Standard, *Specification for Technical Grade Ethylene Dichloride* (Ref. Z5834Z).
- New Standard, *Practice for Dosimetry in An Electron Beam Facility for Radiation Processing At Energies Between 80 and 300 Kev* (Ref. Z5137Z).
- New Standard, *Method for Determination of Carbohydrates in Biomass by Gas Chromatography* (Ref. Z5727Z).

The following newly published standards are available from ASTM:

- B 8-95, *Specification for Concentric-Lay-Stranded Copper Conductors, Hard, Medium-Hard, or Soft*.
- B 353-95, (Includes change to title), *Specification for Wrought Zirconium and Zirconium Alloy Seamless and Welded Tubes for Nuclear Service (Except Nuclear Fuel Cladding)* (revised standard).
- C 1310-95, *Test Method for Determining Radionuclides in Soils by Inductively Coupled Plasma-Mass Spectrometry Using Flow Injection Preconcentration* (new standard).
- D 5863-95, *Test Method for Determination of Nickel, Vanadium, Iron, and Sodium in Crude Oils and Residual Fuels by Flame Atomic Absorption Spectrometry* (new standard).
- D 5738-95, *Guide for Displaying the Results of Chemical Analyses of Ground Water for Major Ions and Trace Elements - Diagrams for Single Analyses* (new standard).
- D 5782-95, *Guide for Use of Direct Air-Rotary Drilling for Geoenvironmental Exploration and Installation of Subsurface Water-Quality Monitoring Devices* (new standard).
- D 5790-95, *Test Method for Measurement of Purgeable Organic Compounds in Water by Capillary Column Gas Chromatography/Mass Spectrometry* (new standard).
- E 1370-96, *Guide to Air Sampling Strategies for Worker and Workplace Protection* (revised standard).
- E 1735-95, *Test Method for Determining Relative Image Quality of Industrial Radiographic Film Exposed to X-Radiation From 4 to 25 Mv* (new standard).
- E 1776-96, *Guide for Development of Fire-Risk-Assessment Standards* (new standard).
- PS 3-95, *Guide for Accelerated Site Characterization for Confirmed or Suspected Petroleum Releases* (new standard).

American National Standards Projects Initiated

The following is a list of proposed new American National Standards or revisions to existing American National Standards submitted to ANSI by accredited standards developers. DOE employees or contractors interested in participating in these activities should contact the appropriate standards developing organization. DOE-TSL-4 lists the DOE representatives on NGS committees. If no DOE representative is listed, contact the TSPO for information on participating in NGS activities.

American Petroleum Institute

Office: 1220 L. Street, N.W.
Washington, D.C. 20005

Contact: David E. Soffrin

- API 505, *Recommended Practice for the Application of IEC 79-10 to the Classification of Electrical Installations in Petroleum Facilities* (new standard).

Underwriters Laboratories, Inc.

Office: 1285 Walt Whitman Road
Melville, NY 11747

Contact: Patricia Tymus

- UL 0943A, *Standard for Safety for Leakage Current Protection Devices* (new standard).

Comments or Questions

If you have any questions or comments, please contact Rick Serbu (EH-31), Manager, DOE Technical Standards Program Office (TSPO), 301-903-2856. Questions or comments may also be referred to Don Spellman, 423-574-7891, c/o Performance Assurance Project Office, Oak Ridge National Laboratory, P.O. Box 2009, Oak Ridge, Tennessee 37831-8065. The TSPO would like to be kept informed of the status of technical standards that are being prepared or coordinated for DOE. Please provide this information to the TSPO at 423-574-7886.



Upcoming Meetings

June 16-20, 1996

1996 American Nuclear Society Annual Meeting

Reno Hilton Hotel, Reno, Nevada

Theme: *The Role of Nuclear Technology in a Sustainable Economy*

The meeting will include two embedded topical meetings entitled Twelfth Topical Meeting on the Technology of Fusion Energy, and DOE Spent Nuclear Fuel & Fissile Material Management. Workshops will be held on the risks associated with decommissioning, preparing for the nuclear engineering professional engineering exam, procedure management and writing, and root cause analysis. The University Working Conference is also being held in conjunction with the meeting.

For more information on the annual meeting, contact General Chair Michael Linberry, Argonne National Laboratory, or the ANS web site at <http://www.ans.neep.wisc.edu/ans/calendar/meetings/reno.96.summer/>.

June 18-19, 1996

Information Infrastructure Standards Progress Meeting

Embassy Suites Hotel, Alexandria, Virginia

This meeting is being scheduled to allow participation in both the IISP meeting and the Global Information Infrastructure (GII) international meeting. The focus of the Opening General Session will be on international GII cooperation.

Karen Higginbottom, Acting Chair of the U.S. TAG to the JTC 1 SWG on GII (JTGII), will be giving a presentation on the activities of the Special Working Group on Global Information Infrastructure (SWG-GII), as well as a report on the JTC1 SWG-GII / ITU-T Joint Rapporteur Group on GII joint meeting in mid-June 1996.

For more information, contact Peter B. Lefkin, Program Administrator, Information Infrastructure Programs, American National Standards Institute (ANSI), 11 West 42nd Street, New York, NY 10036; 212-642-4979, FAX: 212-398-0023, Email: plefkin@ansi.org. IISP URL: <http://www.ansi.org/iisp/iisphome.html>.

August 8-9, 1996

DOE Technical Standards Workshop on Metrology

Sandia National Laboratories, Albuquerque, NM

Technical Standards and Metrology representatives from throughout the DOE complex are invited to attend a metrology organizational workshop in August, sponsored by the DOE Technical Standards Program. The purpose of the working group is to form a Topical Committee to spearhead DOE metrology efforts. In line with DOE's current efforts to streamline administrative matters and establish standards-based management principles, this committee could oversee complex-wide metrology needs and issues to make metrology in the DOE complex as effective and efficient as possible.

Though not limited to the following, the Topical Committee could consider areas of concern such as:

- Understanding the needs of metrology within the DOE complex,
- Coordinating metrology activities throughout the complex,
- Identifying and addressing metrology needs and issues that are not being met, and
- Establishing and maintaining a complex-wide support network.

Technical Standards Managers are asked to help identify Metrology Managers or representatives who should attend. This would include personnel associated with measurement standards and calibration of measurement and test equipment.

For more information, contact Bob Wayland: Phone (505) 271-7917; FAX (505) 271-7974; Email jrwayla@sandia.gov, or Ralph Johnson: Phone (505) 845-8241; FAX (505) 844-4372; Email rtjohns@sandia.gov.

October 14-15, 1996

1996 Standards Engineering Society Annual Conference

Washington National Airport Hilton, Arlington, Virginia.

Theme: *Standards: Solutions for Success*

Conference sessions will feature discussions on improving the standards developing process, the standards developing organization of the future, standards for productivity and profitability, and consortiums and traditional standards development.

For more information contact Donald Kear, Executive Director, SES, at 513-258-1955.

(Continued on Page 12)

Upcoming Meetings (Continued from Page 11)**October 16, 1996****World Standards Day**

Renaissance Arlington Hotel, Arlington, Virginia

Theme: The theme focuses on "services" to consumers and the business community.

ANSI will hold a symposium with cosponsorship by *Business Week Magazine* on the impact of standardization on international trade.

For more information, contact Michael F. Hoynes, 212-642-4950, Email mhoynes@ansi.org.

November 17-22, 1996**1996 International Mechanical Engineering Congress & Exposition**

Atlanta Hilton, Atlanta, Georgia

This meeting will have sessions exploring a variety of engineering methods and models and will highlight important emerging technologies, including standards-related subjects. Highlights include Facility Safety - New Standards, Advances in Information Storage, and Industrial Ergonomics.

For more information, contact the ASME Meetings Department/MS 7H, 345 East 47th Street, New York, NY 10017; 800-843-2763, FAX 212-705-7856;

Email infocentral@asme.org

Internet <http://www.asme.org/index.html>.

1,2,3... (Continued from Page 1)

addressing standardization topics of relevance to the DOE community, your comments on all aspects of the publication, including suggestions for topics to be covered in future issues, are both solicited and welcomed.

TSMC 96-1 (Continued from Page 3)

We had a good meeting in St. Louis! Thanks to all who were able to attend or send representatives. Without your continuing contributions, the Technical Standards Program could not accomplish its goals. If you are a Technical Standards Manager or designated alternate, your participation in future TSMC meetings is critical to making the Technical Standards Program a more valuable asset to the Department. We hope to see you soon!

DOE Technical Standards Managers (TSMs) - Recent Changes

A current listing of the Technical Standards Managers is available on the Internet at the DOE Technical Standards Home Page:

<http://apollo.osti.gov/html/techstds/techstds.html>.

Questions and Answers (Continued from Page 2)

Answer: Actually, the old DOE Hoisting and Rigging Manual and the DOE standard NE F 8-6, *Hoisting and Rigging of Critical Components*, are being replaced by a new DOE technical standard called *Hoisting and Rigging*. However, this new standard is not in its final form as yet due to some minor changes that need to be made before the document can be released. When these are completed (estimated in about three weeks) you should be able to access the new standard on the Internet or call OSTI to get a copy (there will be a nominal charge for a copy from OSTI). Watch future issues of *Standards Actions* to find out when the document is available.

The Standards**Forum****Published By**

Editor Marty Marchbanks

Oak Ridge National Laboratory (ORNL) publishes *The Standards Forum* quarterly for the DOE Technical Standards Program. Questions or comments may be referred to Rick Serbu, EH-31, 301-903-2856; Email:

Richard.Serbu@hq.doe.gov. If you have any comments on DOE standards projects, please call Don Spellman, ORNL, 423-574-7891; Email: **spellmandj@ornl.gov**.

If you have any comments on *The Standards Forum*, or you would like to have your name added to (or removed from) the mailing list for this publication, or you need to make an address change, please notify Marty Marchbanks, ORNL, 423-241-3658; FAX: 423-574-0382; Email: **marchbanksmf@ornl.gov**.